Joaquin Rapela

Birth Date: 04-14-72 ***Address***: 3641 Watt Way, Hedco Neuroscience Building, Los Angeles, CA 90089-2520,
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Education

University of Southern California

Neuroscience Graduate Program August 2002—
PhD in Neuroscience.

Department of Electrical Engineering August 2000—May 2003
MS in Electrical Engineering.

Universidad de Buenos Aires
MS in Computer Science. GPA 8.85 (on the A=10 numerical scale). July 1995—June 1998
BS in Computer Science. July 1992—June 1995

Selected Publications

Shattuck D. Rapela, J. Asma E. Chatziioannou A. Qi J. Leahy R. *Internet2-based 3D PET Image Reconstruction using a PC Cluster*. Physics in Medicine and Biology 47, 2785-2795, 2002.
Rapela, J. *Automatically Combining Ranking Heuristics for HTML Documents*. Proceedings of the Third International Workshop on Web Information and Data Management, 61-67, ACM Press, NY, USA, 2001.

Academic Experience

University of Southern California
Position: Research Assistant. August 2001—Present
Advisor: Dr. Norberto M. Grzywacz. Professor, Department of Biomedical Engineering.
Identification of non-linear receptive fields from natural images (keywords: natural images, systems identification, dimensionality reduction). Development of computational models of the visual system (keywords: bayesian decision theory, neuroscience).

University of Southern California
Role: Journal Club Coordinator. August 2002—Present
In August 2002 my research group started a vision journal club with the aim of creating an interaction space for visual scientists at USC. Currently I am incharged of organizing the Vision Journal Club that gathers faculty and students from different research groups at USC.

University of Southern California
Position: Research Assistant. August 2000—August 2001
Advisor: Dr. Richard M. Leahy. Professor, Department of Electrical Engineering. Director, Signal and Image Processing Institute.
Developed a java interface for the MAP reconstruction algorithm using servlets, signed applets and swing. Contributed in the development of *Brainstorm*, `http://neuroimage.usc.edu/brainstorm`, a Matlab toolbox for MEG/EEG signal processing.

Universidad de Buenos Aires
Position: Teaching Assistant. August 1999—December 1999
Course: Numerical Linear Algebra.

Universidad de Buenos Aires
Position: Teaching Assistant. August 1998—August 1999
Course: Artificial Intelligence.

Industry Experience

IBM Almaden Research Center
Position: Staff Software Engineer January 2000—August 2000
Developed a java interface for the Andrew File System, allowing users to securely access the file system over the Internet using servlets. Experience in distributed file systems.

McLees, Argentina
Position: Software Engineer March 1999—September 1999
Built a distributed object oriented application in java using CORBA and RMI.

Alfanuclear, Argentina
Position: Software Engineer December 1998—March 1999
Medical Image software development in C++.

Oracle, Argentina
Position: Software Engineer June 1998—September 1998
Constructed a web based application for purchasing gas station products through the Internet using different Oracle tools (Oracle Web Application Server, Oracle Forms and Oracle Designer 2000).

IBM, Argentina
Position: Fellowship holder September 1997—June 1998
Technical consultant and programmer of Internet based applications.

IBM Almaden Research Center
Position: Fellowship holder October 1996—September 1997
Migrated to java IBM's storage solution ADSM. Experience in JDBC, native methods, user interface development in java and push technology.

IBM, Argentina
Position: Fellowship holder April 1994—October 1996
Research on object persistence for the Object Oriented Group of IBM Argentina and development of object oriented applications with VisualAge for Smalltalk. Constructed an image processing application performing optical character recognition on credit card receipts. Due to performance constraints the application used concurrent programming with shared memory for inter-process communication under AIX (IBM's UNIX).